

Safety data sheet
According to 453/2010/EC & 1272/2008/EC (CLP)

Printing Date: 22.03.2017

Version Number: 1.0

Revision Date: 22.03.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Trade name: ***DARAGROUT EXPAND (ST)***

1.2 Relevant identified uses of the substance or mixture, and uses advised against:

Relevant identified uses of the substance or mixture: Concrete Admixtures

Identified uses advised against: No further relevant information available.

1.3 Details of the supplier of the safety data sheet:

Manufacturer/supplier:

GCP Germany GmbH
Pyrmonter Straße 56 D-32676 Lügde
Postfach 1262 D-32669 Lügde

Tel: (0 52 81) 77 04-0

Fax: (0 52 81) 77 04-99

www.gcpat.com

Further information obtainable from: msds.gcp@gcpat.com

1.4 Emergency telephone number:

+44 (0)1235 239 670 (Multi-lingual – 24 Hours)

+44 (0)1235 239 671 (Dedicated phone line for Arabic speaking countries - 24 Hours)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Depending on the type of handling and use, airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable silica dust may cause silicosis. Occupational exposure to respirable crystalline silica should be monitored and controlled.

This product should be handled with care to avoid dust generation.

Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008 Not classified.

Hazard pictograms Not classified.

Signal word Not classified.

Hazard statements Not classified.

Additional information: Avoid breathing dust.

2.3 Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

3.2 Chemical characterization: Mixture:

Description: For further information, please refer to the product technical data sheet.

Dangerous components:

| | | | |
|---|-------------------|---|----------|
| CAS: 1317-65-3 EINECS: 215-279-6 | Calcium carbonate | substance with a Community workplace exposure limit | 50-100% |
| CAS: 7429-90-5 EINECS: 231-072-3 Index number: 013-001-00-6 | Aluminium | Pyr. Sol. 1, H250; Water-react. 2, H261 | 1.0-3.0% |

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information: Get medical advice/attention if you feel unwell.

After skin contact: Wash with plenty of soap and water.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents: CO₂, powder or water spray. Fight larger fires with water spray.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters:

Protective equipment: Wear self-contained respiratory protective device.

Additional information: Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up: Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Do not breathe dust.

Do not eat, drink or smoke when using this product.

Store in a well-ventilated place. Keep container tightly closed.

Keep only in original container.

Use only outdoors or in a well-ventilated area.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities:

STORAGE

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions:

Store in a dry place.

Keep cool.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

1317-65-3 Calcium carbonate

OWL (8H) | Short-term value: 4 mg/m³

7429-90-5 Aluminium

WEL | Long-term value: 10* 4** mg/m³
*inhalable dust **respirable dust

DNELs

7429-90-5 Aluminium

Inhalative | DNEL acute systemic | 3 A mg/m³ ((aluminium metal powder/dust 8 hour TWA))

Additional Occupational Exposure Limit Values for possible hazards during processing:

Total dust 10mg/m³, respirable dust 4mg/m³.**Additional information:** Based on the lists valid at the date of SDS creation.

8.2 Exposure controls:

Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, eg. by isolating personnel from dusty areas. Remove and wash soiled clothing.

PERSONAL PROTECTIVE EQUIPMENT

General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

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If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Protective gloves.

Material of gloves: PVC gloves.

Penetration time of glove material:

The exact breakthrough time has to be determined by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

GENERAL INFORMATION

Appearance:

| | |
|-------------------------|-----------------|
| Form: | Powder. |
| Colour: | Light beige |
| Odour: | Characteristic. |
| Odour threshold: | Not determined. |

pH-value (~) at 20 °C: 8

Change in conditions:-

| | |
|---|-----------------|
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | Not determined. |
| Flash point: | Not applicable. |

Flammability (solid, gas): Not determined.

Ignition temperature: Not determined.

| | |
|-----------------------------------|---|
| Decomposition temperature: | Not determined. |
| Auto-ignition temperature: | Product is not self-igniting. |
| Explosive properties: | Product does not present an explosion hazard. |

EXPLOSION LIMITS

| | |
|---------------------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |
| VOC Content: | Not determined. |

| | |
|--------------------------|---------------------|
| Vapour pressure: | Not applicable. |
| Density at 20 °C: | 1 g/cm ³ |
| Relative density: | Not determined. |
| Vapour density: | Not applicable. |
| Evaporation rate: | Not applicable. |

Solubility in/Miscibility with:-
Water: Not miscible or difficult to mix.

Partition coefficient: n-octanol/water: Not determined.

VISCOSITY

| | |
|-------------------------|-----------------|
| Dynamic: | Not applicable. |
| Kinematic: | Not applicable. |
| Molecular weight | Not applicable. |

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9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Stable under normal conditions.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

ACUTE TOXICITY Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

1317-65-3 Calcium carbonate

| | | |
|------|-----------|--------------------|
| Oral | LD50 | 6450 mg/kg (rat) |
| | LC50, 96h | 10.000 mg/l (fish) |

7429-90-5 Aluminium

| | | |
|------|-----------------|-----------------------------|
| Oral | LD50 | > 2000 mg/kg (rat) |
| | Inhalative LC50 | 888 mg/m ³ (rat) |

Primary irritant effect

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information:

7429-90-5 Aluminium

| | | |
|------------|-------|----------------------------|
| Inhalative | NOAEC | 10 mg/m ³ (rat) |
|------------|-------|----------------------------|

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information**12.1 Toxicity:****AQUATIC TOXICITY****1317-65-3 Calcium carbonate**

| | |
|-----------|----------------------------|
| EC50, 72h | 10.000 mg/l (algae) |
| EC50, 48h | 1.000 mg/l (daphnia magna) |

12.2 Persistence and degradability: No further relevant information available.**12.3 Bioaccumulative potential:** No further relevant information available.**12.4 Mobility in soil:** No further relevant information available.**ADDITIONAL ECOLOGICAL INFORMATION****General notes:** Not known to be hazardous to water.**12.5 Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects:** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods:****Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue:

| | |
|----------|---|
| 06 00 00 | WASTES FROM INORGANIC CHEMICAL PROCESSES |
| 06 03 00 | wastes from the MFSU of salts and their solutions and metallic oxides |
| 06 03 14 | solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13 |

UNCLEANED PACKAGING**Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN-Number**

ADR, ADN, IMDG, IATA

Not Regulated

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Not Regulated

14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Not Regulated

14.4 Packing group

ADR, IMDG, IATA

Not Regulated

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14.5 Environmental hazards: Not applicable.

14.6 Special precautions for user: Not Regulated

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not Regulated

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

See Section 2 for hazard identification.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H250 Catches fire spontaneously if exposed to air.

H261 In contact with water releases flammable gases.

Department issuing SDS:

Product Stewardship Department
GCP Applied Technologies
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Slough, Berkshire.
SL1 4EQ

Tel: +44 (0)1753 490 000

Fax: +44 (0)1753 490 051

Other Information:

In June 2003, SCOEL, the EU Scientific Committee on Occupational Exposure Limits concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis.

There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis. Therefore preventing the onset of silicosis will also reduce the cancer risk.

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